## Kentucky Watershed Watch Habitat Assessment Field Data Sheet - High Gradient

COC\_ID:

Historic Site # Si		Site #		Stream Name		Assessment Date					
	Basin										
		tion and C	Ounty (correct (	or add location into it n	Assessment Central Time?						
Sampling Location and County (correct				or add location into it necessary)		Time		Centr			
	Name of Volur	nteer perfo	rming assessm	ent (if incorrect, please	se change) Volunte			nteer ID Number			
Telephone											
	E-mail										
- 100 met	Habitat Parameter		Condition Category								
	Parameter	Cup atau t	Optimal	Suboptimal	Margina		1 40 -	Poor	-  -  -  -  -  -  -  -  -  -  -  -  -  -		
	1. Epifaunal Substrate/ Available Cover	favorable colonizat mix of sn undercut other sta at stage t colonizat (i.e., logs	nan 70% of substrate be for epifaunal ition and fish cover; ags, sumerged logs, banks, cobble or ble habitat and to allow full tion potential s/snags that are not and not transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.		abitat is c	bvious;			
	SCORE	20 19	18 17 16	15 14 13 12 11	10 9 8 7	' 6	5 4	3 2	1 0		
	2. Embeddednes	particles surround Layering	obble, and boulder are 0-25% led by fine sediment. of cobble provides of niche space.	Gravel, cobble, and boulder particles are 25- 50% surrounded by fine sediment.	Gravel, cobble, and boulder particles a 75% surrounded b sediment.	re 50-	boulder	cobble, ar particles : % surround iment.	are more		
l es	SCORE	20 19	18 17 16	15 14 13 12 11	10 9 8 7	' 6	5 4	3 2	1 0		
Parameters to be evaluated in samping reach	3. Velocity/Depth Regime	regimes deep, slo deep, fas	elocity/depth present (slow- ow-shallow, fast- st-shallow). (Slow n/s, deep is > 0.5m.)	Only 3 of the 4 regimes present (if fast-shallow is missing, score lower than if missing other regimes).	Only 2 of the 4 hab regimes present (if shallow or slow-sh are missing, score	fast- allow		ted by 1 v egime (usu ep).			
	SCORE	20 19	18 17 16	15 14 13 12 11	10 9 8 7	' 6	5 4	3 2	1 0		
	4. Sediment Deposition	of islands and less bottom a	no enlargement s or point bars than 5% of the ffected by t deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% of the bottom affected; slight deposition in pools.	Moderate deposition gravel, sand or fine on old and new based of the bottom affect sediment deposits obstructions, constand bends; moderate deposition of pools	e sediment rs; 30-50% ted; at rictions, ate	materia develop 50% of changir pools a	deposits of l, increase ment; mon the bottom ig frequen most absettial sedim on.	ed bar re than n tly; ent due to		
	SCORE	20 19	18 17 16	15 14 13 12 11	10 9 8 7	' 6	5 4	3 2	1 0		
	5. Channel Flow Status	lower ba	aches base of both nks, and minimal of channel substrate ed.	Water fills >75% of the available channel; or <25% of channel substrate is exposed.	Water fills 25-75% available channel, riffle substrates are exposed.	and/or	Very little water in the channel and mostly present as standing pools.		nostly		
	SCORE	20 19	18 17 16	15 14 13 12 11	10 9 8 7	' 6	5 4	3 2	1 0		

	Habitat	Condition Category								
	Parameter	Optimal	Suboptimal	Marginal	Poor					
evaluated broader than sampling reach - 200 meters	6. Channel Alteration	Channelization or dredging absent or minimal; stream with normal pattern.	Some channelization present, usually in areas of bridge abutments; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present but recent channelization is not present.	Channelization may be extensive; embankments or shoring structures present on both banks; and 40 to 80% of stream reach channelized and disrupted.	Banks shored with gabion or cement; over 80% of the stream reach channelized and disrupted. Instream habitat greatly altered or removed entirely.					
	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0					
	7. Frequency of Riffles (or bends)	Occurrence of riffles relatively frequent; ratio of distance between riffles divided by width of the stream <7:1 (generally 5 to 7); variety of habitat is key. In streams where riffles are continuous, placement of boulders or other large, natural obstruction is important.	Occurrence of riffles infrequent; distance between riffles divided by the width of the stream is between 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; distance between riffles divided by the width of the stream is between 15 to 25.	Generally all flat water or shallow riffles; poor habitat; distance between riffles divided by the width of the stream is a ratio of >25.					
	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0					
	8. Bank Stability (score each bank)  Note: determine left or right side by facing downstream.	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosional scars.					
der	SCORE(LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0					
oroa	SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0					
Parameters to be evaluated	9. Vegetative Protection (score each bank)	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation,but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.					
	SCORE(LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0					
	SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0					
	10. Riparian Vegetative Zone Width (score each bank riparian zone)	Width of riparian zone >18 meters; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns or crops) have not impacted zone.	Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.	Width of riparian zone 6- 12 meters; human activities have impacted zone a great deal.	Width of riparian zone <6 meters; little or no riparian vegetation due to human activities.					
	SCORE(LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0					
	SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0					

Total Score \_\_\_\_\_

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